

26th International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY2018)



Contribution ID: 131

Type: **Talk (closed)**

A smoking gun of Higgs Inflation in the NMSSM

Tuesday 24 July 2018 18:20 (20 minutes)

We study the electroweak phenomenology of Higgs Inflation within the Next-to-minimal Supersymmetric Standard Model (NMSSM). The model has a superconformal symmetry at high scales which is broken by the non-minimal coupling to supergravity responsible for early universe inflation. At low energies, however, the model differs from the usual NMSSM. With an emphasis on the Higgs and Neutralino sectors of the model, we work out possible smoking gun signatures of Higgs Inflation at the electroweak scale.

Parallel Session

Supersymmetry: Models, Phenomenology and Experimental Results

Authors: HOLLIK, Wolfgang (Deutsches Elektronen-Synchrotron (DE)); LIEBLER, Stefan Rainer (KIT - Karlsruhe Institute of Technology (DE)); MOORTGAT-PICK, Gudrid; WEIGLEIN, Georg Ralf (Deutsches Elektronen-Synchrotron (DE)); PASSEHR, Sebastian (Sorbonne Universite)

Presenter: HOLLIK, Wolfgang (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Supersymmetry: Models, Phenomenology and Experimental Results